

:

sahand359@yahoo.com :

// : // :

g/L ( × × × ) pH  
COD COD  
mg/L mg/L g/L ×  
mg/L PAC

COD COD  
( mg/L ) ( mg/L )

Amakrane et al. 1997; Chiang et al. )  
2001; Park et al. 2001; Renou et al. 2008;  
(Irene 1997

(Ahn et al. 2002)

COD

SBR

Bohdziewicz et al. 2001; Diamadopoulos et al. 1997; Ding et al. 2001; Geenens et al. (2001)

/ mg/L  
COD

Satyawali and Balakrishnan 2009; Foo )  
(and Hameed 2009; Trebouet et al. 2001

/ mg/L

Li and Zhao 2001; Im )  
et al. 2001; Kettunen et al. 1996; Kim et al. (1997

( )

/...

// C/N/P )  
pH . g/L ( g/L  
/ COD  
COD  
pH  
g/L TSS  
pH / g/L  
:  
pH  
COD  
mg/L /  
/  
/  
/  
/  
:  
x / /  
x x pH COD  
COD  
g/L mg/L  
:  
x KH<sub>2</sub>PO<sub>4</sub>  
mg/L COD

×

mg/L

pH (± )

) /

(± /

%

( )

Jorfi )

(et al. 2009

MLSS

COD

:

pH

( )

COD

mg/L

×

COD

American Public Health )

mg/L

(Associatin, 2005

×

/

rpm

COD

mg/L

COD

(.5220B)

/ mg/L

(.4500-NH<sub>3</sub>B)

mg/L

COD

×

/

(.2540D)

(.4500OC)

l...

---

mg/L / mg/L

MLSS ×

MLSS MLSS

mg/L

MLSS

mg/L ×

MLSS mg/L mg/L

MLSS × ×

( ) MLSS

× × COD

( )

:

( )

×

COD

( × × × )

g/L

/ mg/L COD

/ mg/L

COD × ×

mg/L

PAC / mg/L /

COD

PAC

COD

COD

COD

COD

MLSS

mg/L

MLSS

× × ×

PAC

	x	x		
	x			PAC
Fikret and Pamukoglu )		/		
			(2003	
g/L	( )			
COD			UASB	COD
x		/		
x	x			/
			COD	(Kennedy et al. 2000)
		(Liyan et al. 2009)	MBR	
		PACT		
		COD		(Jolanta et al. 2008)
		(Aghamohammadi et al. 2007)		-
		COD		
				COD
			Shuler and Kargi )	
			MBBR	(2002)
				COD
		COD	Loukidoa and Zouboulis )	
				(2001)
			COD	
			Jokela et al. )	
				(2002)

l...

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/ ± /	(%)
/ ± /	(%)
± /	(%)
/ ± /	(g/cm <sup>3</sup> )
	(mg/g)
±	(mg/g)
	(m <sup>2</sup> /g)
± /	( )
	(%)
	(%)
± /	pH

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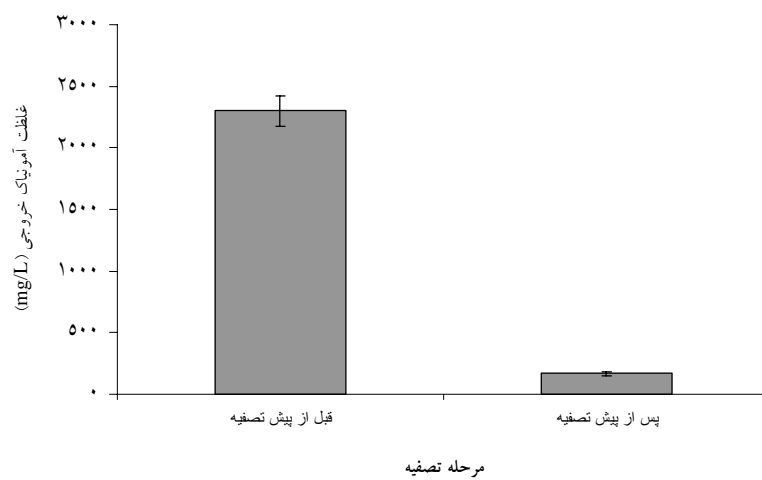
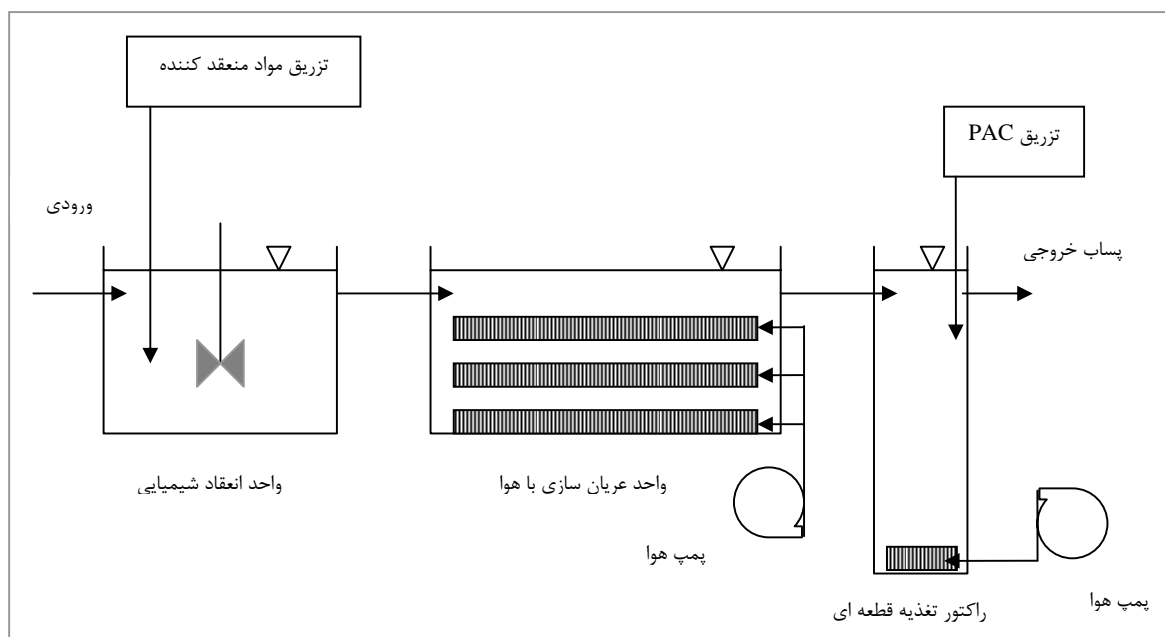
COD			( )
± /	± /		×
± /	± /		×
± /	± /		×

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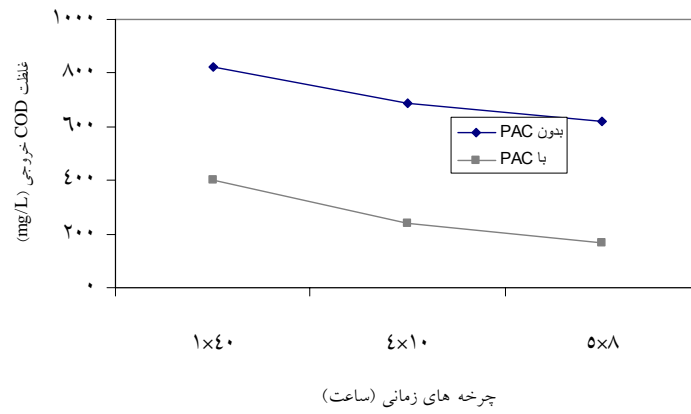
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COD				( )
± /	/	± /	/	×
± /	/	± /	/	×
± /	/	± /	/	×

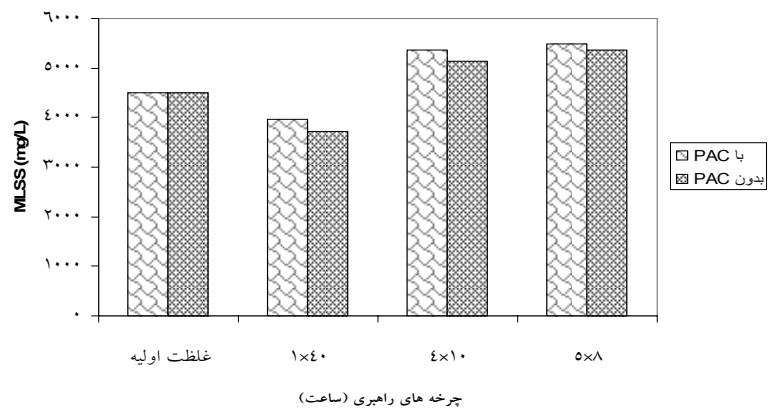
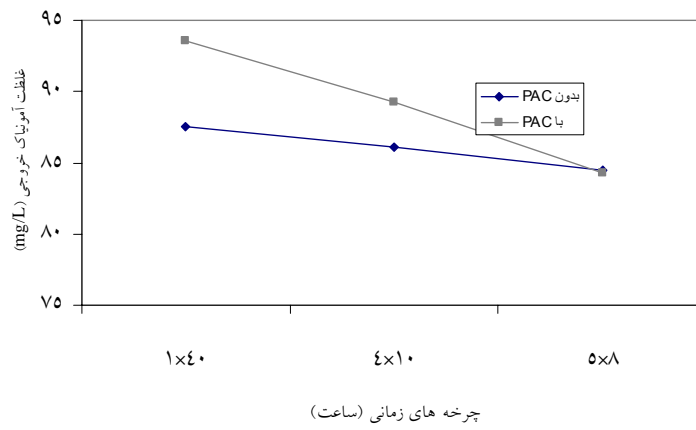
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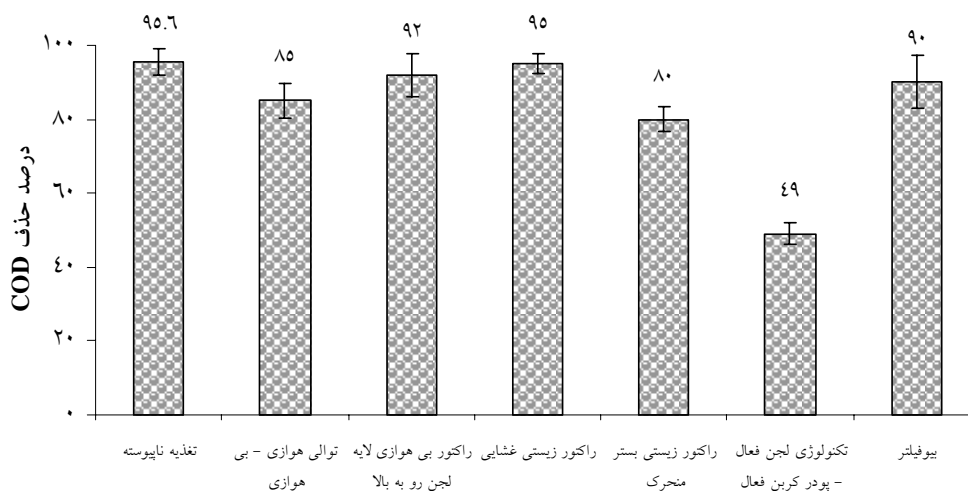




**COD**



**MLSS**



فرآیند تصفیه شیرآبه

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